

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/711,456 09/20/2004		09/20/2004	Jeffrey P. Gambino	BUR920040162US1	BUR920040162US1 5455		
30449	7590	03/02/2006		EXAM	EXAMINER		
SCHMEISE	ER, OLS	EN + WATTS	LE, DU	LE, DUNG ANH			
3 LEAR JET	LANE		ART UNIT	PAPER NUMBER			
SUITE 201	NW 101	10	2818	THERNONDER			
LATHAM,	NI 121.	10		2010			
			DATE MAILED: 03/02/200	DATE MAILED: 03/02/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

DN	
Įν	

		Ap	plication No.	Applicant(s)				
Office Action Summary)/711,456	GAMBINO ET AL.				
			aminer	Art Unit				
			JNG A. LE	2818				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) file	ed on						
2a) <u></u> ☐			ion is non-final.					
3)	Since this application is in condition	for allowance	except for formal matters	s, prosecution as to the	e merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
	Claim(s) 1-60 is/are pending in the							
	4a) Of the above claim(s) <u>39-49</u> is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
•	Claim(s) is/are rejected.							
7) <u></u>	Claim(s) is/are objected to. Claim(s) <u>1-38 and 50-60</u> are subject	t to restriction	and/or election requirem	ent.				
8)[🔀	Ciairi(s) <u>1-30 and 50-50</u> are subject	, to result to the total to	and of closular requirem	-				
• •	ion Papers							
9)[The specification is objected to by the	ne Examiner.		, the Eveniner				
10)[The drawing(s) filed on is/are	e: a)∐ accepte	ea or b) L objected to b)	, wie Examilie. 2 See 37 CFR 1 85(a)				
	Applicant may not request that any objection Replacement drawing sheet(s) including	ection to the drav	wing(s) be neld in abeyance is required if the drawing(s)	is objected to. See 37 (CFR 1.121(d).			
441	The oath or declaration is objected	to by the Exam	niner. Note the attached	Office Action or form P	TO-152.			
		to by the Exam						
_	under 35 U.S.C. § 119	for foreign sei	ority under 35 II S C & 4	119(a)-(d) or (f)				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 								
* See the attached detailed Office action for a list of the certified copies not received.								
2) Not 3) Info	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449	(PTO-948) or PTO/SB/08)	Paper No(s)	immary (PTO-413) /Mail Date ormal Patent Application (P	TO-152)			
l Pap	Paper No(s)/Mail Date							

Application/Control Number: 10/711,456

Art Unit: 2818

DETAILED ACTION

According to Amendment dated 2/23/2006, claims 22-38, 38-49,51-54 and 56-60 are amended. Claims 1-60 are pending.

Applicant's election with traverse of claims 1-38 and 50-60 (refer to Election filed on 5/9/2005 and Amendment dated 2/23/2006), note that, claims 1-38 and 50-60 are method claims is acknowledged. Non elected claims 39-49 are device claims.

Because Applicant did not distinctly and specifically point out the supposed error in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicants have the right to file a divisional, continuation or continuation-in-part application covering the subject matter of the non-elected claims.

The traversal is on the ground(s) that see the election paper. This is not found persuasive because the fields of search for method' and device claims are NOT coextensive and the determinations of patentability of method and device claims are different, that is process limitations and device limitations are given weight differently in determining the patentablitity of the claimed inventions. Also, the strategies for doing text searching of the device claims and method claims are different. Thus, separate searches are required.

The requirement is still deemed proper and is therefore made FINAL.

Application/Control Number: 10/711,456 Page 3

Art Unit: 2818

1. This application contains (claims 1-38 and 50-60) directed to the following patentably distinct species of the claimed invention:

- a) Species I, e.g. claims 1-21: Method for manufacturing an interconnect having steps forming a first capping layer on said top surface of said wire and said top surface of said dielectric, said first capping layer thin enough to allow penetration of said first capping layer by appoint of a conductive probe tip in order to make electrical contact to said wire; and form a second capping layer on a top surface of said first capping layer.
- b) Species II, e.g. claims 22-38: Method for manufacturing a structure having steps forming a first capping layer on said top surface of said wire and said top surface of said dielectric, after that <u>performing one or more characterization procedures</u> in relation to said structure.
- c) Species III, e.g. claims 50-54: Method for manufacturing an interconnect having steps storing said substrate in a controlled environment and perform further processing steps on said substrate.
- d) Species IV, e.g. claims 55-60: Method for manufacturing an interconnect having steps if said period of time exceeds a predetermined period of time, performing a rework clean or a rework chemical mechanical polishing and after that performing further processing steps on said substrate.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claims is finally held to be allowable. Currently, no claim is generic. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is all claims are generic is considered non-responsive unless accompanied by an election.

Application/Control Number: 10/711,456 Page 4

Art Unit: 2818

3. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. 1.141. If claims are added after the selection, applicant must indicate which are readable upon the elected species. M.P.E.P. 809.02(a). Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filled petition under 37 C.F.R. 1.48(b) and by the fee required under 37 C.F.R. 1.17(h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am- 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The central fax phone numbers for the organization where this application or proceeding is assigned are (571)272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

Application/Control Number: 10/711,456

Art Unit: 2818

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUNG A. LE Primary Examiner Art Unit 2818 Page 5